Syllabus for General Physics 2 (PHYS114)
Spring 2014

Important! You must be registered for four separate sections: LEC, QZ, REC and LAB. If you are missing any of these sections, get on a wait list immediately!

Course instructors:
Main Instructor: Glenn Horton-Smith; Office: CW 32B; Email: gahs@ksu.edu.
Director of Labs: Tracy Tuttle; Office: CW 402; Email: trtutt@ksu.edu.

Required textbook and materials:
Textbook: Physics: Principles with Applications (7th Edition) by Douglas C. Giancoli, available as separate vols. 1 and 2 in paperback, or in combined vols. 1, 2 in hardcover. In PHYS114 (GP2) we cover the material in vol. 2. The text is also available in electronic form. (I do not care where you get the text, or in what form, as long as you use it.)
Mastering Physics™: This is a web-based tutoring and homework assignment system. It can be purchased separately or bundled with the textbook: there are many options, and the bookstore and the publisher do not seem to agree on which is the best deal. Registration instructions for Mastering Physics™ will be posted in K-State Online and given in the first day of class.
i>clicker®: This is a remote-control-looking gizmo used in many classes at K-State. If you already have one, you can use it. If not, you can buy one from the bookstore or on-line.
Lab manual: Lab manuals will be posted in electronic form on K-State Online before each lab.

Course Web Site:
Important course resources such as exam grades, announcements, practice exams, lecture notes and so-on will be posted on the course web site, accessed through K-State Online. You can also find information and links to help for physics courses at http://www.phys.ksu.edu/teaching/.

Individual Help:
Any student wanting individual help is urged to visit the Physics Help Room in Cardwell 41 whenever it is open, or see their recitation or lecture instructor during office hours, or at other times by appointment. The schedule of the Help Room will be posted on the course web site and at http://www.phys.ksu.edu/teaching about a week after courses begin. In addition, some physics graduate students work as paid tutors. A list of contacts will be posted when available.

Authorized vs Unauthorized Aid in Academic Work for this class:
In this course, you are permitted to talk with other students about homework problems, but you may not copy solutions or answers from any source. You must work the problems for yourself. Exams and quizzes must be completed individually using only the materials allowed by the exam/quiz instructions. Policies for laboratory work and write-ups are given in the lab manual. If you have any questions about what constitutes authorized and unauthorized aid, contact the instructor immediately.
**Grading:**

Grades are determined on a 1000 point scale as shown below. You cannot get a good grade in the course unless you do all the homework, take all the exams, and do well in the laboratory. You must pass the laboratory to pass the course.

**Determination of final grade:**

- 900 points or above: A
- 800 - 899 points: B
- 700 - 799 points: C
- 600 - 699 points: D
- Under 600 points: F *

**Available points:**

- Homework: 200 points;
- Best 4 of 5 quizzes: 400 points;
- i>clicker: 25 points;
- Final exam: 175 points;
- Laboratory: 200 points *;
- Total available: 1000 points.

* A passing grade in laboratory is required to pass the course.

**Reading assignments:**

Reading from the textbook is assigned for each week. Completing the reading before class will greatly improve your learning experience. Completing the reading before attempting the homework will also be highly advantageous to you.

If you find it difficult to read the text in “linear” fashion, reading every word in order from start to finish, then I would suggest skimming the assigned section once, paying particular attention to the figures and examples, and then read it through in a second pass concentrating on picking out the definitions, equations, and concepts. You may have your own way of reading that works best for you.

**Recitations and Homework:**

Solving problems systematically on a regular basis is an important part of success in physics. Qualitative understanding of concepts is also important.

Homework counts for 200 points of your final grade. There will be one assignment per week, which will have two components: online and written. The two components will be weighted equally. The online homework will be assigned through the Mastering Physics™ web-based instruction system. The written homework will be assigned by your recitation instructor. The online answers are graded automatically by the Mastering Physics web site. The written solutions are graded by your recitation instructor.

The Wednesday recitation sections are focused on learning to solve physics problems. The online assignment should be studied and worked out as best you can before the Wednesday recitation
class each week. In recitation, you may ask questions, get help from your instructor and other students, and revise your solutions accordingly before turning it in.

**All homework will be due on the Thursday after recitation before 5 PM.** The written homework may be turned in at the end of recitation if you complete it before or during recitation, otherwise it must be turned in to the cabinet on the 2nd floor of Cardwell Hall. The online homework due time will be set to 11 PM in Mastering Physics to allow students time to contact Mastering Physics support in the event of any technical problems.

Please note that you may not use solution manuals, online answer sites, other people's homework, or similar sources in obtaining your solutions and answers. Refer to the section above titled “Authorized vs Unauthorized Aid in Academic Work for this class”.

**Exams:**

There are five 1-hour exams during the semester. The best four of your five scores will count. Makeup exams will be given only in extraordinary circumstances. Exams are given at 5:30 pm on the days shown in the schedule in K-State Online. Assignment of exam rooms will be announced in lecture and posted on the course web site. The final exam is comprehensive, mandatory, and has almost the same weight as two one-hour exams.

Exams contain problems that are similar (but not identical) to homework problems, and also conceptual questions in multiple-choice format. You will record multiple-choice exam responses on Scantron cards for automatic grading. Some of the exam questions will require written solutions. Your exam grade will usually be available in the Gradebook on the course web site a few days after each exam.

The exams are closed-book, closed-note. A sheet of “useful equations” will be provided with your exam as a memory aid. But please note that past student experience has shown that having equations available does not guarantee success -- understanding the physics is the key.

**Practice Exams:**

A file of last year's exams (without solutions) will be available on the course web site. They are a useful study resource. Each practice exam also includes the equation sheet so you can see what equations will be provided.

**Laboratory:**

The laboratory is a required and integrated part of the course, and counts 20% of your final grade. *A passing grade in laboratory is required to pass the course.* See the lab manual for rules and grading procedures. Lab manuals will be posted in electronic form on K-State Online.

**Credit for Previous Lab Work:**

Students retaking the course who have successfully completed the lab must contact the Director of Physics Labs, Tracy Tuttle, prior to the first lab in order to get credit for previous lab work. (See contact information at the top of this syllabus.)
**Conditions Requiring Special Accommodations:**
If you have any condition which will require academic accommodations, please notify the instructor and contact the Student Access Center office. For more information, see the “Statement Regarding Students with Disabilities” below.

**All Course Syllabi Must Include the Following Statements**
[please read them]

**Statement Regarding Academic Honesty:**
Kansas State University has an Honor System based on personal integrity, which is presumed to be sufficient assurance that, in academic matters, one's work is performed honestly and without unauthorized assistance. Undergraduate and graduate students, by registration, acknowledge the jurisdiction of the Honor System. The policies and procedures of the Honor System apply to all full and part-time students enrolled in undergraduate and graduate courses on-campus, off-campus, and via distance learning. The honor system website can be reached via the following URL: www.ksu.edu/honor. A component vital to the Honor System is the inclusion of the Honor Pledge which applies to all assignments, examinations, or other course work undertaken by students. The Honor Pledge is implied, whether or not it is stated: "On my honor, as a student, I have neither given nor received unauthorized aid on this academic work." A grade of XF can result from a breach of academic honesty. The F indicates failure in the course; the X indicates the reason is an Honor Pledge violation.

For more information refer to the K-State Undergraduate Catalog and the Honor and Integrity System page at http://www.ksu.edu/honor/.

**Statement Regarding Students with Disabilities**
Students with disabilities who need classroom accommodations, access to technology, or information about emergency building/campus evacuation processes should contact the Student Access Center and/or their instructor. Services are available to students with a wide range of disabilities including, but not limited to, physical disabilities, medical conditions, learning disabilities, attention deficit disorder, depression, and anxiety. If you are a student enrolled in campus/online courses through the Manhattan or Olathe campuses, contact the Student Access Center (http://www.k-state.edu/accesscenter/) at accesscenter@k-state.edu, 785-532-6441; for Salina campus, contact the Academic and Career Advising Center at acac@k-state.edu, 785-826-2649.

**Statement Defining Expectations for Classroom Conduct**
All student activities in the University, including this course, are governed by the Student Judicial Conduct Code as outlined in the Student Governing Association By Laws, Article V, Section 3, [paragraph A], number 2. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.

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